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ABSTRACT

The documents present two issues of Resources, a newsletter from the Pennsylvania Regional Resources Center of Eastern Pennsylvania for Special Education. The first issue lists and describes 65 media equipment items that have application for special education. Included are a device that holds a book or magazine at the proper reading angle and turns the pages for those who are physically unable to do so, a modified cassette recorder and player that can expand or compress speech from 1/2 to 2 1/2 times the normal speed, and an electronic speech synthesizer for nonverbal/nonvocal people. The addresses of the companies offering these devices are also given, and some of the devices are illustrated. The second issue describes and provides the ordering addresses of over 100 instructional materials for vocational education for handicapped and normal students. (DLS)

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resources

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for special education

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ED191231

MEDIA APPLICATIONS FOR SPECIAL EDUCATION

"I'm not mechanically inclined."
"Using equipment always causes chaos, it's disruptive."
"Machines are too impersonal."
"Even if we had AV money, I wouldn't know what to buy."
"The equipment is too complicated, and who has time to read directions?"
"Media is fine, but there isn't anything for my subject area."

These comments typify the way many educators feel about educational technology. Lack of exposure, misunderstanding, budget restraints, curricular requirements, and a general fear of the unknown have caused teachers to shy away from media at a time when rapid advances were being made in this field. Beyond the generally "accepted" forms of audio-visual presentation (i.e., films, filmstrips, videotape), media applications for classroom instruction have been largely ignored.

Recent developments in special education, however, seem to warrant a reexamination of educational technology. As a result of Public Law 94-142 more students with special needs are being returned to or retained in the mainstream of education. In order to provide a truly appropriate education for each child, teachers should be familiar with and be able to take advantage of current developments in curriculum and educational technology. A number of items presently available in this field can, when used appropriately, help teachers deal effectively with a wide range of individual abilities and differences. For example, electronic teaching machines like *Dataman, Mathiputor, Digitor, Speak and Spell,* and *Charlie,* allow students to work independently at various levels in a number of curriculum areas. Most come with programmed instructional sequences and some, such as *Skylab Eduprise,* provide materials for teachers to design their own instructional programs.

The mandate to provide appropriate educational experiences to all children includes those students with physical and perceptual limitations. Technological advances in the design of adaptive devices have enabled persons with these disabilities to compensate for specific conditions that have previously hindered their learning and achievement. Devices such as page turning machines, modified tape recorders, projecting microscopes, talking calculators, and specially adapted typewriters are a few examples of the innovations that have been made in this area. New communication devices for individuals with various sensory impairments are also noteworthy. The *VIP Communicator, Canon Communicator, Phonic Mirror 110* and *120,* and a variety of boards are all designed to provide a means of communication for nonverbal persons. A device such as the *AFB Telatouch* allows individuals to carry on conversations in braille with deaf-blind persons.

The items highlighted above are a small sampling of the advances that have been made in educational technology that enhance the learning options available to exceptional children. In order to assist educators in a renewed effort to examine educational technology, we have devoted this issue of **Resources** to media applications for special education. It lists and describes the Eastern SERRC collection of primarily student-use media equipment which includes teaching machines, communication devices, and adaptive interfaces. The purpose of the collection is to provide educators with the opportunity to preview this equipment and borrow it for trial use in the school setting. By inspecting

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MEDIA APPLICATIONS FOR SPECIAL EDUCATION (continued)

this equipment at the Center and trying it out in the classroom, educators will be able to make more effective and, given the cost of these items, more efficient use of their media budgets. The teaching programs (i.e., software) designed for use with the equipment are also available for loan as part of our circulating instructional materials collection.

The items described in this issue were selected by our staff. The list is not intended to be a comprehensive analysis of all that exists in the field, or even a selection of what we consider to be the best and most current items available. (Our policy of not evaluating instructional materials also applies to our equipment collection.) Rather, it highlights a wide range of items that have varying degrees of utility and applicability for exceptional students. Only our clients, with their knowledge of their own programs and unique awareness of their students' needs, can decide what is best for them.

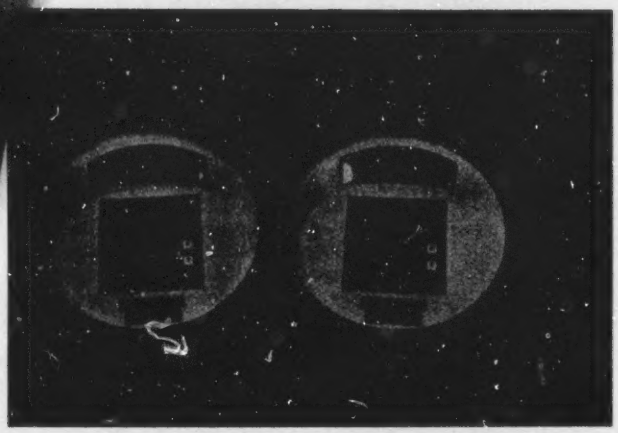
RECENT ACQUISITIONS

The thirteen items pictured and described below represent some of the more recent additions to our media equipment collection. Costs, where cited in this and the following section, are based on price at time of purchase and should be considered approximate.

Sound on Slide System. Visual Products Division/3M, 3M Center, St. Paul, MN 55101. This is a projector/recorder unit which provides a method for recording 30-second audio messages which accompany 35mm slides. The unit also serves as a slide projector which plays back the messages in synchromesh with the slides for individualized or group teaching programs. Once a message has been recorded on the machine it is locked together with a slide in a 2 x 2 frame. The unit will record and replay messages instantly, and erasure or revision of the messages can be done at any time. The projector is equipped with a pause control and automatic focus.

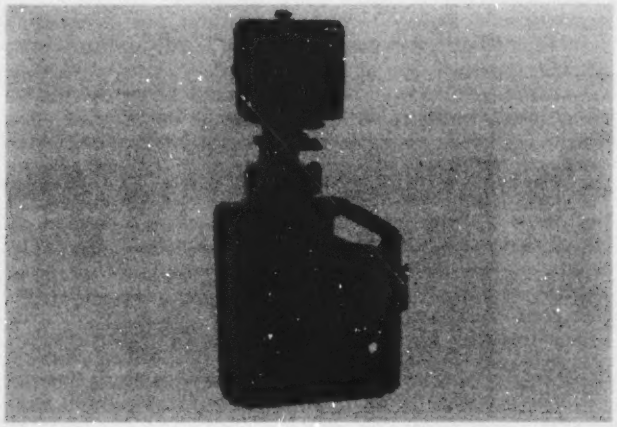
AFB Telatouch. American Federation for the Blind. 15 W. 16th St., New York, NY 10011. $295.00. The *Telatouch* is a device to be used in communicating with deaf-blind students who have knowledge of braille. In appearance the unit resembles a carriageless typewriter with a braille cell built into the back of the machine. The keyboard is a standard typewriter board with the addition of six keys similar to those on a braillewriter. The braille cell is activated when a key on the keyboard is touched. The blind-deaf student puts a finger on the braille cell and can then feel the letters which have been struck on the keyboard. The *Telatouch* comes equipped with braille instructions. The device measures 2½ x 9 x 9 inches and weighs 3½ pounds.

Game Center. Telesensory Systems, Inc., 3408 Hillview Ave., P.O. Box 10099, Palo Alto, CA 94304. $990.00. This is a machine which is programmed with eight different auditory electronic games for the visually impaired. It features derivations of Tic-Tac-Toe, Craps, Blackjack, Electronic Paddleball and other games in which the operator responds to the machine's auditory signals. The device allows one person to play against the machine, two people to compete against each other, or a group of people to take turns trying to beat each other's scores. In addition to providing enjoyment, the games are useful in developing auditory processing, memory, math skills, and in training students to respond quickly. Both a manual and an audio cassette that provide the directions for playing each game are included.

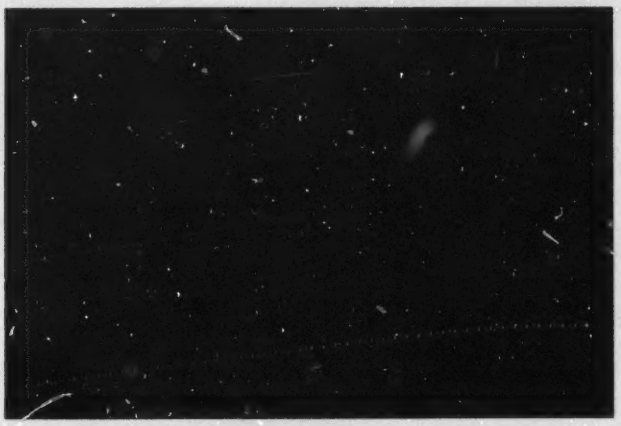


Alphator I and **Alphator II.** Centurion Industries, 2549 Middlefield Rd., Redwood City, CA 94063. $299.50 each. These programmed learning devices are designed to improve the reading ability of students in grades 1-4 by providing them with practice in word attack skills. Each of the machines flashes words from preselected categories on their screens and asks students to identify them by pushing a key on the keyboard. The machines select words randomly within each category and identify correct and incorrect answers. The memory of *Alphator I* contains 441 basic sight, affix, and compound words in the categories of letter matching, vowel sounds, consonant blends, and compound words. It is intended for use in grades 1-3. The memory of *Alphator II* contains 562 basic sight and affix words in the categories of affixes, syllables, spelling, and word recognition. Both machines can be set to provide series of 10, 20, or 30 words, and scores and elapsed time are given at the end of each series.

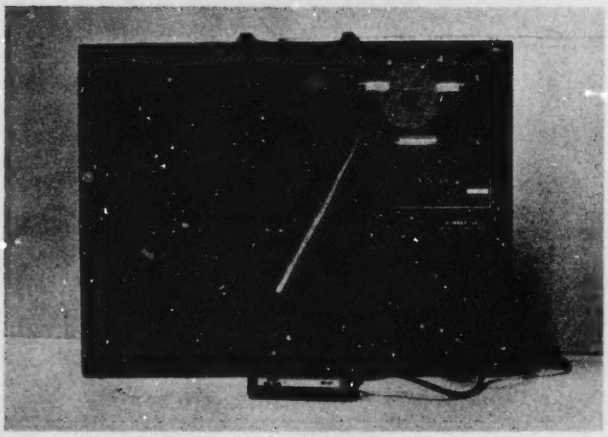
Charlie. Educational Insights, 20435 Tillman Ave., Carson, CA 90746. $39.00. Program cards $9.95 per pack of 20. This is a small individualized instruction device for teaching math and language skills to early childhood and primary students. A few programs for intermediate students are also available. Students place instruction cards on the top of the machine and respond to the card's questions by inserting a probe into multiple choice slots. A correct answer causes a light to go on and a bell to sound, providing reinforcement. An incorrect answer produces no response. Using the mechanism requires some degree of fine motor control, but it can be adapted for students with motor control problems. The device is battery operated and portable. Its colorful design and robot-like appearance are intended to make the machine appealing to young children.



Bioscope Micro-Projector. Bioscope Manufacturing Company, 6407 E. Tecumseh, Tulsa, OK 74115. $349.00. This is a teaching device designed for both wall-screen and tabletop projection of microscopic slides and live microscopic material. It magnifies 80 times at a distance of 4 feet and 224 times at 10 feet. When used to project downward on a tabletop, the room may be left light enough for note taking, tracing, or drawing. Although designed to facilitate group study of microscopic materials, the *Micro-Projector* may be adapted for use as a microscope by the addition of a 10x eyepiece. While not intended for long distance projecting or where high magnification or resolution are required, used properly, the unit should magnify sufficiently to show plant cells, paramecia, and similar specimens. It can be used with a variety of exceptional students, from the perceptually impaired to those who have difficulty operating a microscope. The teacher's manual, besides detailing directions for operation, care, and microscope conversion, outlines a number of experiments which can be conducted with the *Bioscope.* It also gives instructions for making temporary slides, permanent mounts, and photomicrographs. The unit weighs 12 pounds, measures 18 x 11 x 7½ inches, and comes mounted on its own carrying case.

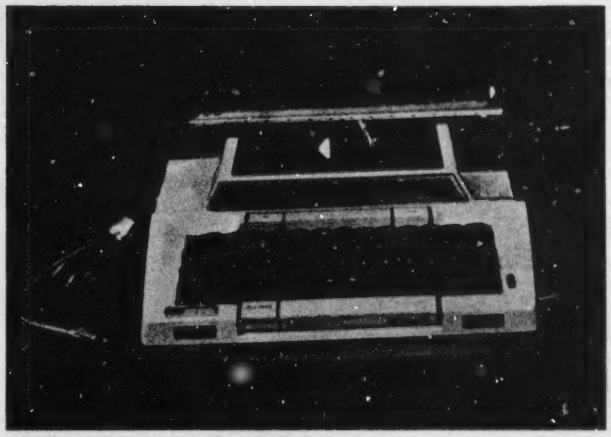


Touch Turner. Touch Turner, 443 View Ridge Dr., Everett, WA 98203. This is a device which holds a book or magazine at the proper reading angle and turns pages—either forward or backward—for those who are physically unable to do so. Assistance is needed in inserting and intially adjusting and positioning the publication. It can handle books with a thickness of up to two inches. Sensitive switches which operate the mechanism can be activated with a minimum of movement, such as puffing of a cheek, or any finger movement. The *Touch Turner* operates on eight "D" size batteries which last up to six months. Less expensive models with forward turning motion only are also available. $275.00.

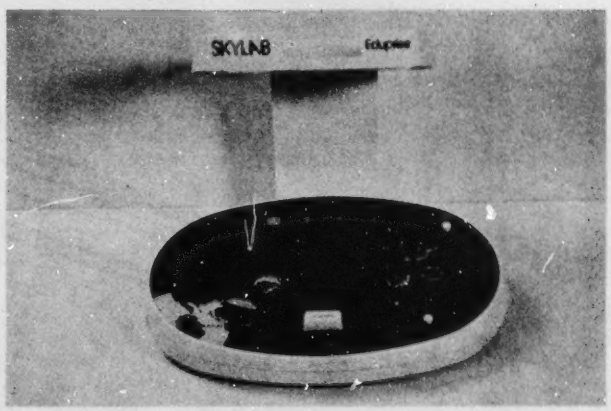


Scanning Strip Printer. Prentke Romich Company. R.D. 2, Box 191, Shreve, OH 44676. $990.00. This is a row-column scanning communication board which also emits a printed strip of paper with the selected message spelled out on it. When one of the 63 characters on the display is selected, the character (number, letter, signs, or punctuation) is printed on heat sensitive paper. The arrangement of the characters is such that those most frequently used are easiest to select. To select a character the student must first activate the scanning device by means of a pressure sensitive switch. One lamp is lighted at a time and follows a predetermined path in the matrix. The scanning rate is adjustable. When the switch is pressed, the light will stop at that point, illuminating the character on the board and printing it on the tape at the same time. One control switch is available at RRC; however, several more, as well as custom switches can be purchased from the manufacturer.

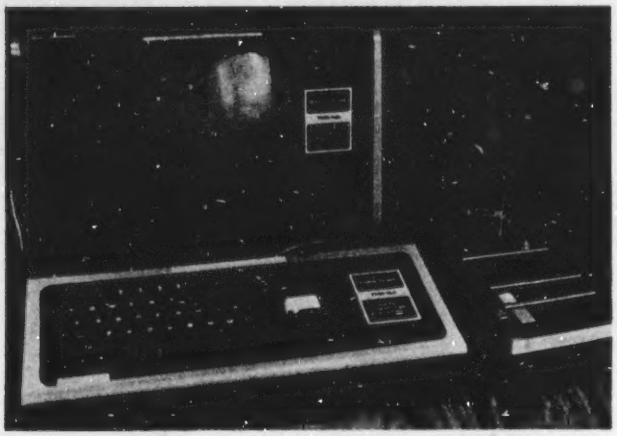
Therapen. Therapeople Inc., Suite 25, 16262 Whittier Blvd., Whittier, CA 90603. Pen $74.50. Instructional program $94.50 each. This device is said to aid students with auditory perception problems by presenting material to them through bone conduction learning rather than through normal auditory channels. The kit contains a pen-like instrument with attached wires which are used to connect the pen to a cassette tape recorder. When one of the three tape programs—on basic perception, auditory perception, and auditory memory—are played in a recorder, the sound is transmitted through the wires and into the pen. To hear the programs, students hold the pen to their foreheads where the sound is transmitted to the cranial cavity through bone conduction. A light in the end of the pen flashes on and off in reaction to the sound waves. The taped programs and accompanying student materials present concepts and correctly answered questions to students, repeat the questions and ask the students to answer, and then present the questions in a quiz.



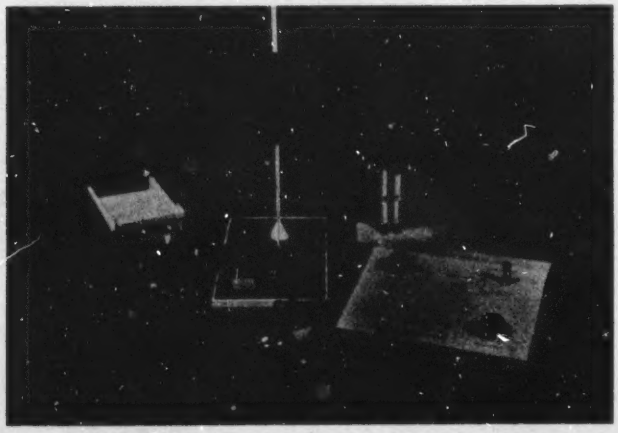
Dvorak One-Hand Typewriter. Typewriting Institute for the Handicapped, 3102 W. Augusta Ave., Phoenix, AZ 85021. This is a conventional Smith-Corona semiportable, electric typewriter which has been fitted with a special keyboard to accommodate the one-handed typist—in this case a left-handed one. The keyboard has been arranged so that the frequently used letters are concentrated in the center, and the cartridge ribbon can be changed easily with one hand. An Instruction Manual for One-Hand Typing is included, and it provides special techniques and lessons for developing typing skills. A keyboard for a left-handed typist is also available from the producer. $370.00.



Skylab Eduprise. Instructional Industries, Inc., Executive Park, Ballston Lake, NY 12019. $134.95. (Includes module, skill card support, and power converter only). This is a computerized teaching machine which utilizes an outer-space motif to assist students in the development of basic skills. Colorful multiple-choice skill cards present problems in reading and math readiness, perceptual and thinking skills, math, spelling, and language/reading. Each lesson is synchronized with the electronic *Skylab* module, and has a specific planet goal that the student tries to reach by thinking through each lesson and making the correct responses. Each set of skill cards has a stated instructional objective, defining what the child should be able to accomplish when the lesson is completed. *Skylab*'s motivational features and wide range of single-concept lessons make it adaptable for a variety of exceptional learners, both handicapped and gifted. Special skill card packs with do-it-yourself blank cards on which teachers can develop their own lessons are also available. With these materials teachers can supplement existing programs, create pre- and posttests, or design individualized, content-specific lessons. Testing and review cards are available for identifying perceptual skill problems and for math and math readiness. The 90 skill card programs, each addressing a specific subskill within these broad areas, range in price from $13-23.



TRS-80 Computer. Tandy Corporation, Fort Worth, TX 76102. Available at Radio Shack stores. $499.00. This is an inexpensive microcomputer that is designed to be easy to operate and capable of a variety of educational applications. This miniature computer can be programmed by the user or operated with commercially prepared programs. The basic system consists of a lightweight video display monitor, a 53-key professional keyboard, a cassette recorder which serves as the memory, a power supply, a 232-page user's manual and a blank cassette tape. The user's manual includes a beginner's course in basic programming language. Prepared programs are available on such topics as Math I, Algebra I, the Level I Basic Instruction Course, and games that deal with logic and deduction. The system can be used by those who have had no prior knowledge or experience with computers.



Talk and Look Speech Trainer. J. A. Preston Corporation, 71 Fifth Ave., New York, NY 10003. $379.95. Designed for use with young children having speech disorders, this set consists of a battery-powered control panel, three "toys" (a truck, a doll on a string, and a dancing man), and an extremely sensitive microphone. When children speak into the microphone, their voice vibrations cause one of the three "toys" to move: the doll dances on a platform, the truck moves backwards or forwards, the monkey climbs up or down a pole. Intended to increase the motivation of the younger child, the trainer may be used with individuals who have no will to speak or who require additional development of their voice. By engaging various switches on the control panel, the therapist can determine which toy will be activated, the direction in which the truck or monkey will move, and whether the toys continue their motion after initial speech or only for the duration of sound emission by the child. A control dial may be used to adjust the sensitivity level of the microphone for varying degrees of speech deficiency. Jacks are provided on the control panel for the three toys and the microphone.

COMPREHENSIVE EQUIPMENT LISTING

AFB Telatouch (See index for page number)

Alphabet Message Scanner. Prentke Romich Company, R.D. 2, Box 191, Shreve, OH 44676. $425.00. This communication device features an array of 48 display areas arranged in six rows and eight columns. The scanning lamp, which may be activated by one or more control switches, was designed to accommodate a variety of user capabilities.

Alphator I and Alphator II (See index for page number)

Autotutor Mark 5. Tutorsystems, A Division of Sargent-Welch Scientific Co., 7300 N. Linden Ave., Skokie, IL 60076. $1100.00. This electronic teaching machine, which contains memory and logic systems, presents individualized visual lessons in the manner of computer-assisted instruction. Instructional cassettes, called *Tutorprograms,* are available at the intermediate and secondary grade levels in math, reading, language arts, and science.

BCI SR-400 Programmer. Behavior Controls, Inc., Box 480, Milwaukee, WI 53201. $1,322.00. This sophisticated programmed teaching and research machine holds rolls of paper on which the user writes or affixes material that is to be presented to students. When activated, the machine advances a frame of material. The top of the frame presents a picture, word, etc., and students respond to it by pressing a button, panel, or writing in an answer. A variety of optional equipment is available.

Beseler Cue/See. Charles Beseler Co., 8 Fernwood Rd., Florham Park, NJ 07932. $600.00. This is an audiovisual machine for Super 8mm film which: shows the film on a self-contained 6 x 8 inch screen; projects the film for wall or screen showing; allows for viewing of a single frame of film; provides for the recording of your own sound track; and can be programmed for various operating speeds. The machine accepts only Super 8 endless loop film cartridges, but a large number of educational programs are available in this format.

Bioscope Microprojector (See index for page number)

Bliss Symbol Scanner. Prentke Romich Company, R.D. 2, Box 191, Shreve, OH 44676. $480.00. This communication board for nonverbal, physically handicapped students uses the Bliss Symbol system on its display face. Bliss level 100, 200, and 512 vocabularies are interchangeable display boards. The 100 symbols on each board are selectively illuminated by an adjustable scanning light. Students use a control switch to make selections. At the selected location the light will flash off and on until turned off, and an audible signal can also be used to request attention. A clear display mask is included which can be used with a grease pencil for any desired meaning.

Canon Communicator. Telesensory Systems, 3408 Hillview Ave., P.O. Box 10099, Palo Alto, CA 94304. $749.00. A battery operated miniature typewriter for use with nonverbal persons, this communication device has keyboards for the letters of the alphabet, numbers, symbols, arithmetic signs, and punctuation. As the user types a message, the *Communicator* prints the words on thermo-sensitive tape which can be read as it emerges from the machine or torn off and given to another person.

Charlie (See index for page number)

Communicator. Adaptive Therapeutic Systems, Inc., 162 Ridge Rd., Madison, CT 06443. $241.00. This is a battery operated communication board for use by physically handicapped persons. Interchangeable face plates with letters, numbers, and colors are mounted on the front of the clock-like device, and the user spells out messages by activating and stopping a center-pivoting arm which sweeps around the face.

Craig Reader. Training Services, Inc. 2501 Silverside Rd., Wilmington, DE 19810. $390.00. This device is designed to increase students' reading comprehension and efficiency by presenting programmed reading material in slide film format, on its built-in screen. Various settings actuate a light bar which moves from the top to the bottom of the screen at single or variable speeds and illuminates the words.

Dataman. Texas Instruments, Inc., 2305 University Ave., Lubbock, TX 77002. $24.95. This small computer designed to help students in math, features programs in addition, subtraction, multiplication, division, and various games. Students are also able to use *Dataman* with their own problems. Students are given two opportunities to answer their problem correctly and visual feedback is provided for each response.

Digitor. Centurion Industries, Inc., 2549 Middlefield Rd., Redwood City, CA 94063. $249.50. This is a programmed arithmetic module designed to help young students master basic math skills. The machine presents random math problems in a display window and students answer them by pressing buttons on the calculator-like keyboard. Settings on the machine allow selection of level of difficulty, math operation, and number of problems presented.

Dvorak One-Hand Typewriter (See index for page number)

Echorder. Echorder Division, RIL Electronics, Inc. 1105 Industrial Highway, Southampton, PA 18966. $398.00. This automatic speech playback instrument was conceived by and for professional speech clinicians to assist in speech, hearing, and language therapy. The *Echorder* features recording and automatic time-delay playback capabilities.

Film Loop Projector. Holt, Rhinehart and Winston, Inc., Media Dept., 383 Madison Ave., New York, NY 10017. $167.50. This is a small 8mm film loop projector which accepts most of the closed cartridge instructional programs that are commercially available. Film loop projectors are available in both silent and sound models and have stop-action capability.

Form-A-Phrase. Scitronics, Inc., 523 S. Clewell St., Bethlehem, PA 18015. $649.00; Control units $25.00-344.00. This is a communication device which provides an electronic voice for nonverbal persons. Using one of four different control units, the operator selects one of the 128 phrases which are in the unit's memory. A self-contained speaker then broadcasts the selected message. The devices are available with either male, female, or childlike voice.

Game Center (See index for page number)

Hoffman Viewer. Hoffman Educational Systems, 4423 Arden Dr., El Monte, CA 91734. $389.00. This self-contained, portable audiovisual unit presents synchronous film-slide/record instructional programs. Compatible software, the *Hoffman Language Arts Reading Program*, is also available at the Center.

Holodaptor. Discontinued/Available at Regional Resources Center. This slide projector attachment can be used to create a holographic projection which will allow students to view objects in three dimensions.

Keystone Telebinocular. Keystone, 2212 East 12th St., Davenport, IA 52803. This instrument and accompanying stereoscopic test target slides provide for school screening of basic visual skills and visual acuity. The student views the slides through the instrument, reports what is seen, and the responses are checked on a record form. The test is designed for screening purposes only. $410.00.

Kodak Ektalite 120E Reader. Eastman Kodak Company, 800 Lee Rd., Rochester, NY 14650. This small, lightweight microfiche reader is recommended for use with the *Kodak Dicom Individual Testing Program.* Instructional manuals are provided for both instructors and students. $150.00.

Kodak Visualmaker. Eastman Kodak Company, 800 Lee Rd., Rochester, NY 14650. This specially designed camera kit can be used to make slides or prints of any piece of flat photocopied, typed, drawn, or painted material which is no larger than 8 x 8 inches, and many three-dimensional objects. $215.00.

Labelle Courier 16TR Projector. Labelle Industries, Inc., 510 South Worthington St., Oconomowoc, WI 53066. This projector accepts instructional programs in standard sound film loop cartridge format and allows for fast forward or recuing of individual frames. The unit is compatible with the film loop portions of such programs as COATS, PREP and MIND. $450.00.

Language Master. Bell & Howell, Audio Visual Products Div., 7100 McCormick Rd., Chicago, IL 60645. $224.95. Program cards $44.00-295.00. These card readers are used with sets of cards containing visual material and a strip of recording tape. The student inserts the card into the machine which plays back the recorded instruction, records the student's response, and then gives the correct response. Program cards on language development, readiness, word attack skills, vocabulary, comprehension and math are available, with most material aimed at grades K-7.

Mast Programmed Instructor. Mast Development Corp., 22122 12th St., Davenport, IA 52803. Designed to be used with special Mast film cartridges, this teaching machine provides for linear programmed individualized instruction in numerous curricular areas. After the cartridge has been inserted, the learning material is projected into a self-contained 4 x 6 inch screen. Students write their responses and the correct answer appears at the bottom of the screen when the student pushes the button. $300.00.

Mathiputor. Cybernetic Systems, Inc., 9615 Acoma Southeast, Albuquerque, NM 87123. $249.50. This electronic computer can be used for instruction and evaluation in addition, subtraction, multiplication, and division. The problems and the student responses are electronically produced in the display window. Immediate feedback, a "happy face" for the correct response or a "sad face" for an incorrect answer, is provided.

MCM/D Communication System. Micon Industries 252 Oak St., Oakland, CA 94607. $650.00. This system is a teletype-like device which enables deaf persons to communicate by telephone. Telephone calls are transmitted electronically on the deaf telephone network via typed messages.

Page Turner. Bard/Carbra, 731 Central Ave., Murray Hill, NJ 07974. $1,525.00. This adaptive device enables physically disabled persons to turn the pages of a book or magazine independently, except for assistance with the initial insertion of the reading material. The device uses a suction action to lift the page.

PAL System Teaching Machine. Instructional Industries, Inc., Executive Park, Ballston Lake, NY 12019. This filmstrip/cassette console is designed to be used with the self-pacing PAL filmstrip programs in the perceptual, reading, math, science, and social studies areas. The machine provides buttons for a four-choice response by the student to program questions and an error counter to monitor progress. The unit can also accommodate standard filmstrips and audio cassettes.

Perceptuamotor Pen. Wayne Engineering Orthoptic Division, 4120 Greenwood, Skokie, IL 60076. $110.00. This inexpensive tool is designed to improve motor performance, perceptual awareness, gross and fine motor integration, and to encourage auditory discrimination. Students trace patterns with the pen and, if the learner goes off the line, a low frequency sound is heard. The sound increases as the student moves further away from the line.

Perkins Brailler. Howe Press of Perkins School for the Blind, Watertown, MA 02172. This typewriter-like machine types in braille on both light and heavyweight paper. Modified braillers for special purposes are available at extra cost. $175.00.

Phonic Mirror. H. C. Electronics, Inc., 250 Camino Alto, Mill Valley, CA 94941. This tape recorder for speech and language training provides automatic speech playback and utilizes time delay tape cartridges for self-practice in articulation, voice, rhythm, and language development. $550.00.

Phonic Mirror 110. H. C. Electronics, Inc., 250 Camino Alto, Mill Valley, CA 94941. $2,195.00. A precision electronic speech synthesizer for nonverbal/nonvocal people, this unit will speak, save, recall, or repeat any message created from the 473 words, sounds, and phrases in its vocabulary.

Phonic Mirror 120. H. C. Electronics, Inc., 250 Camino Alto, Mill Valley, CA 94941. $2,195.00. Similar in function to the *110* described above, the *120* has a vocabulary of 991 words, sounds, and phrases which are accessible through a calculator like keyboard, as opposed to the *110*'s 128 touch-sensitive squares.

PIP Multi-Media Projector. Norelco-Training and Education Systems, North American Philips Corp., 35 Abbett Ave., Morristown, NJ 07960. $675.00. This audiovisual machine projects Super 8mm film cassettes and plays accompanying audio cassettes. The machine has a provision for recording your own soundtrack and synchronizing it with the film presentation. The films can be shown on a self-contained 4 x 6 inch screen, or projected onto a wall. There are many instructional programs available in the Super 8mm cassette format.

Pola Vision. Eumig Corporation, Vienna, Austria. $510.00. The video system, consisting of a Super 8 motion picture camera, a cassette of instantly developing color film, and a compact player, processes and plays back film within 90 seconds of the time the picture was taken.

Portable Filmstrip Viewer. Hudson Photographic Industries, Inc., Irvington-on-Hudson, NY 10533. This portable unit is designed for "desk-top" viewing of single frames of 35mm filmstrips. The user manually advances the film from frame to frame and views the filmstrip on a small, illuminated screen. $50.00.

PROPAL Teaching Machine. Instructional Industries, Executive Park, Ballston Lake, NY 12019. This filmstrip/cassette console has been modified by the use of remote controls. Students provide responses to problems or questions presented by each frame of the *PAL* filmstrip series by means of a foot-pedal, pressure plate, sensor bulb, or electric eye. A correct response automatically advances the unit to the next instructional frame. $979.00.

Reading Accelerator. Science Research Associates, Inc., 155 N. Wacker Dr., Chicago, IL 60606. $120.95. This portable reading pacing device is designed to help students increase reading rates. The device is placed on top of printed material and a movable shutter travels down the page, exposing lines of print at a predetermined rate. Speeds can be adjusted from 16 to 3000 words per minute.

Scanning Strip Printer (See index for page number)

Skill-Master Card Reader. M. C. M. Corporation, P.O. Box 288, Old Greenwich, CT 06870. $189.00. This combination card reader and cassette recorder plays and records *Language Master, MCM Skill Cards,* and other commercially available instructional "talking-card" programs. The card reader can be removed to allow the recorder to play and record audio cassettes.

Skylab Eduprise (See index for page number)

Snapshooter Disposable Camera. RFL Inc., Regal Road, King of Prussia, PA 19406. Camera $2.50. This disposable plastic camera for children has all the features of a camera: lens shutter release, film advance, and view finder. It is low in cost and easy to operate. Film snaps onto the back of the *Snapshooter* and becomes part of the camera body.

Sound on Slide System (See index for page number)

Speak and Spell. Texas Instruments, P.O. Box 10508, Lubbock, TX 79408. A battery-operated learning aid which resembles a large pocket calculator, this device is designed to help children master the spelling and pronunciation of 200 irregularly spelled words. It is self-pacing; word pronunciation, corrections, and reinforcement are provided by an electronic voice. $65.00.

Speech Plus Calculator. Telesensory Systems, Inc., 1889 Page Mill Rd., Palo Alto, CA 94304. $395.00. Designed for the visually impaired, this talking calculator does addition, subtraction, multiplication, division, square root, and percentage problems. It has a 24-word vocabulary and a low battery warning device.

Spelling B. Texas Instruments Inc., 2305 University Ave., Lubbock, TX 79408. This calculator-like learning aid is designed to help children learn to spell through word-picture association. The machine displays numbers which correspond to pictures in an accompanying book. Children look at the picture and then punch the keyboard letters to spell the word. The device gives feedback and can be adjusted for three levels of difficulty. $32.00.

System 80. Borg-Warner Educational Systems, 600 West University Dr., Arlington Heights, IL 60004. This is a diagnostic and prescriptive audiovisual learning system which presents a variety of learning programs in multiple choice format. User indicates responses to pictured and audio instruction by pushing one of five response buttons. $280.00.

System 80 Interface. Prentke Romich Company, R.D. 2, Box 191, Shreve, OH 44676. $340.00. This adaptive mechanism makes it possible for students with physical limitations to use *System 80.* The unit contains three adaptive switches: a rocking lever switch for arm, hand or elbow; a tongue switch; and a pneumatic switch.

Talk and Look Speech Trainer (See index for page number)

Therapen (See index for page number)

Touch Turner (See index for page number)

TRS-80 Computer (See index for page number)

Tutorette. Audiotronics, 7428 Bellaire Ave., N. Hollywood, CA 91605. $99.95. Program cards $19.95-44.95. This individualized multisensory audiocard system allows students to hear and see instruction simultaneously. The *Tutorette Audiocard Programs* provide prerecorded illustrated cards which, when passed through the card reader, play back the lesson. Program cards in reading, language arts, math, and science for grades preschool-12 are available.

Tutorgram. Enrichment Reading Corporation of America, Iron Ridge, WI 53035. $118.00. This mini teaching machine provides exercises in language arts, social studies, mathematics, and science. Correct responses to question cards placed on the tutorgram unit are acknowledged through both visual and auditory feedback.

TV Home Programmer. RCA Distributor & Special Products Div., Deptford, NJ 08096. $150.00. This console, which connects to the antenna terminals of a TV set, has five built-in games and provision for add-on cartridges containing other games and educational programs.

Varco Viewer. Varco Viewer, 225 South Meramec, St. Louis, MO 63105. $9.95. This is a nonelectric and inexpensive filmstrip viewer which teachers can use to preview and select materials for the class. An eye shield allows both eyes to remain open while viewing.

Variable Speech Control Cassette Tape Recorder (VSC). Variable Speech Control Co., 2088 Union St., San Francisco, CA 94123. $295.00. This modified tape recorder enables the user to play back recorded speech at a faster or slower speed without altering the pitch or tone. The machine replays at 60 to 250 percent of normal speech speed without distortion. $295.00.

Varispeech II. Lexicon, Inc., 60 Turner St., Waltham, MA 02154. This modified cassette recorder and player can expand or compress recorded speech from ½ to 2½ times the normal speed without distortion of pitch or tone. The machine is capable of playing standard mono or stereo audio cassettes and can record directly from a variety of sources such as a talking book machine, microphone, radio, or phonograph speakers. $595.00.

VIP Communicator. Automated Data Systems, Inc., P.O. Box 4062, Madison, WI 53711. $179.00, Talking Pocket $49.00. This is a calculator-like communication device which displays letters by means of light emitting diodes in a display window. As letters on the keyboard are pressed, they are displayed on the unit or sent by telephone to another *Communicator* which displays them. A separate display window, called a Talking Pocket, can be pinned to clothing for face-to-face communication.

Voice-Lite I. Behavioral Controls, Inc., P.O. Box 480, Milwaukee, WI 53201. $375.50. This is a multipurpose speech training aid which changes voiced sound into light patterns of corresponding intensity and duration. It allows students in speech therapy to "see" their speech and compare it to the therapist's pronunciation of words and sounds.

Voxcom. Tapecon, Inc., 10 Latta Rd., Rochester, NY 14612. This modified card reader records and replays messages on self-adhesive TALK/TAPE that can be attached to a wide variety of materials—pictures, cards, clippings, etc. The ¼" wide tape is available in rolls and precut strips. The *Voxcom* can also be used to record and play pretaped materials. $220.00.

Zygo Communication Board. Zygo Industries, Box 1808, Portland, OR 97207. $295.00. This is a communication board with a scanning light for use by nonverbal persons with limited communication needs, and for classroom use by teachers and clinicians who work with nonverbal students. The board has only 16 display areas, so scanning time is much less than with boards with full alphabet displays. Photos, artwork, and printed messages can be inserted into the display area to meet the needs of many situations.

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newsletter from regional resources center
of eastern pennsylvania
for special education

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resources

VOCATIONAL EDUCATION AND SPECIAL EDUCATION: A CHANGING PERSPECTIVE

par.all.el/'par-e-lel/adj: extending in the same direction, everywhere equidistant, and not meeting.

per.spec.tive/per-'spek-tiv/n: the aspect in which a subject or its parts are mentally viewed; capacity to view things in their true relations or relative importance.

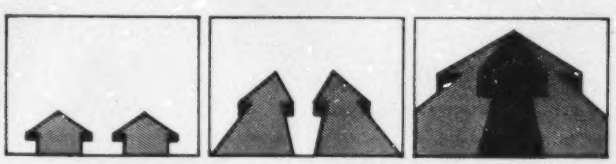
con.verge/kan-vurj'/v: to tend or move toward union or toward a common conclusion or result.

Parallel. . . perspective. . . converge. . . although these concepts are generally thought of in linear or visual terms, and are more likely to be found in the conversations of mathematicians than educators, they can also be applied to a consideration of the relationship between vocational education and special education. There is no question that vocational education has made significant technical and psychological advances in the past two decades. The Vocational Education Act of 1963 (P.L. 88-210) laid the groundwork for broad-based vocational programming in public schools, and today vocational education is an integral part of every school district's program of instruction. It is multifaceted and comprehensive, offering a wide range of job training and career preparation opportunities in a variety of settings. No longer a "dumping ground" for the nonacademic, vocational education has become a sophisticated and highly regarded component of the educational system.

Special education has experienced a similar—parallel, if you will—development. Since 1961, when President John F. Kennedy focused national attention on exceptional children by creating the President's Panel on Mental Retardation, an increasing number of legal suits, judicial decisions, and legislative actions have dealt with the education and training of the handicapped. At the same time, advances in our understanding of handicapping conditions, evaluation and teaching techniques, and media technology have resulted in sophisticated identification and programming strategies and enabled special educators to offer diverse educational opportunities to special students. Like vocational education, this former "dumping ground" for curricular misfits is now recognized as a valuable and necessary component of the educational system.

The problem with parallels is that, by definition, they do not meet. Despite such legislative efforts as the 1968 amendments to the 1963 Vocational Education Act, the 1976 Vocational Education Section of P.L. 94-482, the Education for all Handicapped Children Act (P.L. 94-142), and Sections 503 and 504 of the Rehabilitation Act, the U.S. Auditor General reports that handicapped persons have not been given the benefit of full participation in vocational programs. Public awareness and acceptance of the handicapped has risen and, while employers may now be more open to hiring the handicapped, these students are not being adequately prepared.

While vocational and special education have developed in parallel fashion, "extending in the same direction, everywhere equidistant, and not meeting," the situation is not irreversible. It is a basic mathematical fact that, when you alter your "perspective," "parallels" will eventually "converge." Applying this principle to the educational system, when we develop the "capacity to view things in their true relations and relative importance," vocational and special education will begin to "move toward union. . . and a common result" of effective vocational preparation for exceptional students.



Being conscious of the need to support any such efforts to affect attitudinal change with materials and information, we have devoted this issue of **Resources** to the topic of vocational education for exceptional students. It lists and describes a portion of the Eastern SERRC collection of professional and student use materials and resources which have been identified as appropriate for teachers and planners of vocational education programs for the handicapped. Information is included on books, instructional media and materials, tests, professional films, and journals. The materials cited deal with career awareness, prevocational concepts, and skill development. The list, which was selected by our staff, is not intended to be exhaustive. Rather, it is representative of recently acquired materials, and indicative of the tremendous variety of resources available on this topic. Special thanks are extended to Ray Greer, Special Education Advisor, Division of Federal Programs, Bureau of Special Education, Pennsylvania Department of Education, for the information and guidance he provided.

INSTRUCTIONAL MATERIALS

Alarm & Signal Services. Singer Education Division, Career Systems. 80 Commerce Dr., Rochester, NY 14623. 1978. Module. This work task simulator is a self-contained, portable unit designed to provide hands-on experiences in the installation and maintenance of various alarm systems. The module includes all necessary hardware and a complete audio-visual training program. RRC CODE: 3 SINCAS 02b

Applications & Forms Series. Interpretive Education, 2306 Winters Dr., Kalamazoo, MI 49002. 1977. Multimedia Kit. A set of five filmstrips, five audio cassettes, 20 student workbooks and a teacher's guide presenting a practical, step-by-step approach to filling out various types of applications and forms related to employment. RRC CODE: 3 INTEED 21

Autobody Repair: Metal Work. Prentice-Hall Media, Inc., 150 White Plains Rd., Tarrytown, NY 10591. 1979. Multimedia. This series of six filmstrips and audio cassettes is designed to provide a basic foundation in autobody repair. Titles include: hand tools and power equipment; basic straightening methods; using the body jack; using fillers; lead and plastic; aligning doors, hoods, and trunk lids; and estimating autobody damage. The teacher's guide includes review questions. RRC CODE. 3 PRENHA 07

Automotive Clutch Assembly. Bergwall Productions, Inc., 839 Stewart Ave., Garden City, NY 11530. 1976. Multimedia. A set of six filmstrips, six audio cassettes and study guide dealing with: basic clutch parts and operations: slippage, gears clashing, and driving habits; power flow; noises and linkage problems; disassembly and reassembly. Review tests are included for each of the presentations. RRC CODE: 3 BERGPR 13

Basic Automotive Service. Prentice-Hall Media, Inc., 150 White Plains Rd., Tarrytown, NY 10591. 1977. Multimedia. This set of five filmstrips and audio cassettes introduces the basics of automotive maintenance. The filmstrips show, in sequential order, the procedure and skills necessary to perform periodic maintenance for lubrication, tires, batteries, and lights and wiring. A sixth filmstrip on autoshop safety is included. The teacher's guide contains review questions. RRC CODE: 3 PRENHA 10

Career Awareness. QED Productions, 2282 Townsgate Rd., P.O. Box 4029, Westlake Village, CA 91359. 1974. Multimedia. A series of five filmstrips and audio cassettes, a teacher's manual, and student activity duplicator masters designed to lead the elementary age student to a thoughtful appraisal of career education. It emphasizes understanding of self-skill awareness and the decision-making process. RRC CODE: 3 QEDPRO 07

Career Capers. Teaching Resources, 100 Boylston St., Boston, MA 02116. 1978. Book. Written for elementary and junior high school age students, this collection of games and activities is designed to strengthen math and language skills while building career awareness. Two companion books—Careers and Me (grades K-2) and Career Workbook (grades 2-4)—are also available. RRC CODE: 3 TEACHE 01

Career Core Competencies. McGraw-Hill Book Co., 1221 Avenue of the Americas, New York, NY 10020. 1977. Kits. This comprehensive learning system is designed to foster career skills by developing students' understanding of themselves in educational, occupational, and social contexts. Each of the seven units includes student text workbooks, a sound filmstrip, and three audio cassettes to expand concepts presented in the text workbooks. Each unit is self-contained and deals with a different aspect of occupational planning. RRC CODE: 3 MCGRHI 14a-g

Career Exploration Kit. Career Aids, Inc., 5024 Lankershim Blvd., N. Hollywood, CA 91601. 1977. Cards. A set of 130 activity cards designed to stimulate secondary school students of various levels of sophistication to explore careers through involvement. Group and mini-project ideas in business, communications, fine arts, health, manufacturing, and other areas are included. RRC CODE: 3 CAREAI 01

Career Insights & Self-Awareness Games. Houghton Mifflin Co., 2 Park St., Boston, MA 02107. 1973. Game. This collection of noncompetitive learning games is built around concepts associated with work, work roles and work situations, and provides a developmental approach to career involvement. Designed for elementary students, it is also applicable in junior high. The games involve both the cognitive and affective aspects of vocational learning and maturation. RRC CODE: 3 HOUGMI 04

Career Opportunity Boxes. Houghton Mifflin Company, 2 Park St., Boston, MA 02107. 1978. Cards. This series includes eight boxes of job information associated with major academic disciplines: English, social studies, math, science, foreign languages, industrial arts, business, and fine arts. Each box contains 100-125 cards that describe a job for which the academic area concerned is necessary or helpful. RRC CODE: 3 TIMSHC 02a-h

Carpentry. ESP, Inc., 1201 E. Johnson, P.O. Drawer 5037, Jonesboro, AR 72401. 1975. Multimedia. This series of 24 15-minute cassette lessons is designed for entry level preparation, occupational guidance, concept introduction, and review with secondary level students. Each cassette deals with a single aspect of carpentry construction. Student worksheets on spirit masters are also provided. RRC CODE: 3 EDSEND 05

Choosing and Getting a Job. Coronet Films, 65 E. South Water St., Chicago, IL 60601. 1974. Multimedia. Kit contains eight sound filmstrips, ten audio cassettes with response booklets, and a teacher's guide. The filmstrips emphasize decision making and adjustment in career selection. The cassettes complement this material through practice exercises which involve the students in real life situations. RRC CODE: 3 COROFI 10

Construction: Basic Principles. RMI Media Productions, Inc., 120 W. 72nd St., Kansas City, MO 64114. 1978. Multimedia. This set of five filmstrips and audio cassettes deals with five of the major trades in the construction industry: concrete and masonry, carpentry, electrical work, plumbing, and heating and air conditioning. Each presentation covers the basic principles and techniques of the craft and includes a built-in question and answer section for ongoing evaluation. RRC CODE: 3 RMIMEP 01

Cosmotology Illustrated. Prentice-Hall Media, Inc., 150 White Plains Rd., Tarrytown, NY 10591. 1978. Multimedia. This series of 16 filmstrips and audio cassettes and four teacher's guides is designed to teach the basic techniques of beauty culture. The series is compatible with leading cosmotology textbooks and can be used for instruction and review, or as a general grooming guide for secondary students. The teacher's guide offers teaching techniques, behavioral objectives, review tests, and complete narration for the filmstrips. RRC CODE: 3 PRENHA 03a-d

Early Career Books. Lerner Publications Co., 241 First Ave., N., Minneapolis, MN 55401. 1975. Books. This series of 34 hardcover books is designed to acquaint elementary age students with various careers. Each book examines a number of jobs within a given occupational field, explaining the importance of each and highlighting some of the basic competencies and interests involved. Each book is 32 pages long and is illustrated with color photographs. RRC CODE: 3 LERPUC 02

Food Services: An Occupational Outlook. Westinghouse Learning Corporation, 100 Park Ave., New York, NY 10017. 1976. Multimedia. This career exploration program introduces students to occupational options in the area of food services. Four sound filmstrips illustrate the careers and some of the skills needed in the food service industry. The kit also contains 75 project cards divided into nine career categories, a student questionnaire, and interview/observation form, and a teacher's guide. RRC CODE: 3 WESLEC 02

House Wiring. DCA Educational Products, 424 Valley Rd., Warrington, PA 18976. 1975. Multimedia. Each of the three units in this program consists of three filmstrips and audio cassettes and a teacher's guide. Lessons on basic electrician's tools; identifying electrical fittings; installing receptacles, switches and ceiling outlets; and other topics related to house wiring are included. RRC CODE: 3 DCAEDP 03a-c

Janus Job Interview Kit. Janus Book Publishers, 3541 Investment Blvd., Suite 5, Hayward, CA 94545. 1976. Kit. Designed for senior high school special needs students, this kit provides the basic materials needed to conduct simulated job interviews for 30 different jobs. Contents include interview picture cards, a job ticket book, application forms, interview rating sheets, pupil progress record forms and a teacher's guide. RRC CODE: 3 JANBOP 13

Job Hunting Game. Interactive Media, 15203 Branham La., San Jose, CA 95124. 1977. Game. Designed for secondary school students and adults, this kit develops job hunting skills through interactive role playing. Materials include: role cards for job hunters, employers, and state employment counselors; help wanted signs; a teacher's guide; interview guides; and interview station materials. Materials are written at the fifth grade level. RRC CODE: 3 INTEME 01

Know Your Automobile. Educational Activities, Inc., P.O. Box 392, Freeport, NY 11520. 1977. Multimedia. Contains a set of six filmstrips, audio cassettes, and guides, and a glossary of automotive terms designed to introduce students to the basic parts of the automobile. Relatively simple presentations of the internal combustion engine; fuel, exhaust, electrical, cooling, oil and lubrication systems; brakes, tires, steering, and suspension are included. RRC CODE: 3 EDACTI 18

Learning Occupational Objectives Kit (LOOK). Chronicle Guidance Publications, Inc., Moravia, NY 13118. 1976. Kit. LOOK consists of eight separate instructional units, a glossary of occupations, student summary sheets, and 45 occupational information cards. The activities are designed to help students discover what they would like to do and make them aware of traits and characteristics necessary for different occupations. RRC CODE: 3 CHRGUP 02

Letter Writing for the Office. National Book Company, 1019 S. W. Tenth Ave., Portland, OR 97205. 1975. Multimedia. This comprehensive course includes 42 recorded lessons and a corresponding student workbook with note taking and exercise sections for each lesson. Twelve progress tests with an answer key are also included. Lessons address word selection, sentence structure and composition, as well as the technology of business letter writing. RRC CODE: 3 NATIBO 01

Livelyhoods: Careers for Your Lifestyle. Time Share, 630 Oakward Ave., West Hartford, CT 06110. 1978. Kit. Livelyhoods consists of 16 filmstrips and cassettes; one pair is the introductory overview of the entire series; each of the other is focused on one of the U.S. Office of Education occupational clusters. A total of 90 jobs are presented. RRC CODE: 3 TIMSHC 04

Mail Sorting Training Program. EBSCO Curriculum Materials, 1230 1st Ave., Birmingham, AL 35201. 1978. Kit. The Mail Sorting Training Program was developed for the TMH student from 12 to 21 years of age. Actual envelopes, postcards, and address labels have been prepared to closely duplicate the actual work task and create a real job environment. RRC CODE: 3 EBSCUM 01

Maintenance Electrician Services. Singer Education Division, Career Systems, 80 Commerce Dr., Rochester, NY 14623. 1978. Module. This work task simulator is a self-contained, portable unit designed to provide hands-on experiences in a variety of electrical maintenance operations. The module includes all necessary hardware and a complete audio visual training program. RRC CODE: 3 SINCAS 02

Masonry. DCA Educational Products. 424 Valley Rd., Warrington, PA 18976. 1977. Multimedia. A series of 12 sound filmstrips grouped in units of three titles each which present specific skills. Unit 1 deals with hand tools and mortar, units 2 and 3 with laying bricks, and unit 4 with laying blocks. The teacher's guide includes objectives, activities, evaluation, and student worksheets for each lesson. RRC CODE: 3 DCAEDP 04a-d

Me and Jobs Skillbooks. Educational Design, Inc., 47 W. 13th St., New York, NY 10011. 1980. Kit. The complete program offers five filmstrips and tape cassettes, 30 copies of workbook-textbooks, 2 teacher's manuals designed to teach self-awareness, job awareness, and job acquisition. RRC CODE: 3 EDUCDE 07

Offset Printing. Bergwall Productions, 839 Stewart Ave., Garden City, NY 11530. 1977. Multimedia. A series of 23 filmstrips and audio cassettes written to give the student a clear understanding of the photo-offset process. The basic offset press and its various parts are explained, as well as the paper cutter and folding machine. Review tests are provided for each filmstrip. RRC CODE: 3 BERGPR 04a-d

Personal Reading. Relevant Productions, Inc., P.O. Box 68, Indian Rocks Beach, FL 33535. 1976. Kit. This series of high interest/low vocabulary reading modules presents short reading selections which are related to work experiences. Each of the six modules includes 30 illustrated student books, a read-along cassette, student skill sheets, and a teacher's guide. RRC CODE: 3 RELEPR 04a-f

Plumbing. ESP, Inc., 1201 E. Johnson, Jonesboro, AR 72401. 1975. Kit. Twenty-four, 15-minutes self-instructional lessons on audio cassettes that teach basic plumbing technology, codes, and practice. Duplicator masters provide worksheets for each lesson. RRC CODE: 3 EDSENP 04

Practical Skills for the Homemaker. Centron Educational Films, 1621 W. Ninth St., Lawrence, KA 66044. 1974. Multimedia. A set of five filmstrips and audio cassettes, and a teacher's guide that present step-by-step explanations of home maintenance and repair skills, including simple plumbing repairs, minor electrical repairs, furniture refinishing, wallpapering, and painting interior walls and trim. RRC CODE: 3 CENEDF 01

Prevocational Readiness Battery. Pleasantville Educational Supply Corp., 21 Paulding St., Pleasantville, NY 10570. 1978. Kit. A series of multicomponent subtests for the evaluation and assessment of prevocational skills in trainable and educable students. Subtests help determine innate abilities, potential work placements, vocational interests, social and interpersonal skills, and independent living skills. RRC CODE: 3 VALPCO 01

Project Discovery. Southwest Iowa Learning Resources Center, 401 Reed St., Red Oak, 1976. IA 51566. 1977, 1976. Kits. A multimedia career exploration system that provides individualized, hands-on, simulated work activities for junior and senior high students. Written materials are at a 2-3 grade reading level. Separate kits provide experiences in the following job clusters: consumer-homemaking, personal services, health occupations; agribusiness; natural resources, public service, communication and media, marketing and distribution, business and office, transportation, and construction. RRC CODE: 3 SOUIOI 01-11

Project MORE. Hubbard, P.O. Box 104, Northbrook, IL 60062. 1979. Kits. Two kits designed to teach personal care and simple first aid skills to the severely mentally handicapped. Books, sound filmstrips, and manuals provide teaching instructions and materials, testing, and record keeping for acquiring such skills as: tooth brushing, use of deodorant, care of hair, use of bandages, and treatment of bruises and simple injuries. RRC CODE: 3 HUBSCC 01a, b

Safety at Work. Prentice Hall Media, 150 White Plains Rd., Tarrytown, NY 10591. 1970. Kit. A series of ten sound filmstrips that illustrate safety procedures applicable to any work situation. Topics include: frequently neglected safety procedures; protection of the eyes; safe use of hand and bench tools; operation of power machines; preparation for emergencies; first aid techniques for handling wounds, fractures, shock, burns; and artificial respiration. RRC CODE: 3 PRENHA 11

SAIL. Melton Peninsula Co., 1949 Stemmons Freeway, Suite 690, Dallas, TX 75207. 1979. Kit. Designed to teach community living skills to developmentally delayed adolescents and adults, the Skills to Achieve Independent Living program (SAIL) addresses the areas of personal management, home management, community access, and applied academics. It includes: 433 color-coded task cards; a SAIL skills inventory; pupil progress profiles; sign, symbol, and number cards; storytelling posters and a teacher's guide. RRC CODE: 3 MELTPE 01

Secondary Career Education Series. Media Materials, Inc., 2936 Remington Ave., Baltimore, MD 21211. 1978. Kits. Three audio cassettes and accompanying high interest, low vocabulary activity books that introduce the tasks, skills, and job requirements of many occupations. Each cassette, in conjunction with its book, provides for eight units of instruction. Activity pages are reproducible. Topics included are: career awareness, career exploration, and career planning. RRC CODE: 3 MEDIMA 03a-c

Self Awareness/Career Awareness in Your Curriculum. Instructo/McGraw Hill, Paoli, PA 19301. 1977. Book. A resource book containing motivational and learning activities to introduce students, grades K-6, to the working world and different kinds of jobs. RRC CODE: 3 INSTRU 22

Sewing: The Basics Explained. Bergwall Productions, Inc., 839 Stewart Ave., Garden City, NY 11530. 1978. Kits. A series of 12 sound filmstrips and accompanying guides that provide an introduction to basic sewing skills. Individual unit programs illustrate the use of sewing equipment, selection of patterns and fabrics, and the procedures for making skirts, shirts, blouses, and pants. Guides include test questions for each unit. RRC CODE: 3 BERGPR 03a-c

Small Engine Service and Overhaul. Prentice Hall Media, 150 White Plains Rd., Tarrytown, NY 10591. 1978. Kit. A series of six sound filmstrips that demonstrate repair procedures for most small engines. Individual programs introduce seasonal, ignition, and fuel servicing and the disassembly, preparation, and the assembly of internal parts in the major overhaul of small engines. RRC CODE: 3 PRENHA 14

Smart Spending. Educational Design, Inc., 47 West 13th St., New York, NY 10011. 1971. Kit. A multimedia kit of sound filmstrips, texts, role-playing scripts, and problem cards that teach basic consumer skills. The program provides instruction and practice in decision making, budgeting, the purchase of consumer goods, the understanding of advertising and selling practices, and the use of credit. RRC CODE: 3 EDUCDE 06

Speaking and Listening on the Job. Coronet Films, 65 E. South Water St., Chicago, IL 60601. 1979. Multimedia. A high interest, competency-based series, for secondary level students with self-directing and self-correcting cassette lessons that are correlated with student response sheets. The six cassette lessons include: clarifying instructions, getting and relaying information, presenting ideas and opinions, making requests, handling criticism, and dealing with conflicts. RRC CODE: 3 COROFI 11

Tanjo Explores the World of Work. Society for Visual Education, Inc., 1345 Diversey Parkway, Chicago, IL 60614. 1974. Multimedia. This series of six filmstrips, cassettes, and teacher's guides is designed to introduce elementary age students to the world of work. Job similarities and interdependencies, and the importance of individual workers are stressed. The filmstrips touch on all job clusters specified by the U.S. Department of Education. RRC CODE: 3 SOCFOV 20

2000 Safety Series. The 2000 Company, Box 1055, Costa Mesa, CA 92627. 1978. Multimedia. A series of filmstrip/audio cassette programs using cartoons, humor, rock music, and realistic shop sounds to communicate vocational shop safety concepts. Programs, which include student tests and a teacher's guide, also deal with these shop areas: auto, cooking, electricity, food services, graphic arts, metal, welding, and wood. RRC CODE: 3 TWOTHC 03-09

Valpar Component Work Samples. Pleasantville Educational Supply Corp., 21 Paulding St., Pleasantville, NY 10570. 1974. Work samples. Each of the 16 independent work samples is individually packaged and includes an evaluator's handbook, complete norming data, and 100 client scoring forms. The RRC collection currently includes these work samples: small tools, size discrimination, numerical sorting, upper extremity range of motion, independent problem solving, multilevel sorting, and simulated assembly. RRC CODE: 3 VALPCO 02

Vocational Skills for Tomorrow. Coronet Films, 65 E. South Water St., Chicago, IL 60601. 1975. Multimedia. A set of six filmstrips, three records and a teacher's guide that provide information and practical guidelines to help students make career choices. The series outlines the specific skills and training required to succeed in different jobs within five major areas. A bilingual version combining the same vocational content with language practice is also available. RRC CODE: 3 COROFI 13

Woodworking: Hand Tool Operation. Prentice-Hall Media, Inc., 150 White Plains Rd., Tarrytown, NY 10591. 1978. Multimedia. This kit, containing five filmstrips, and audio cassettes, and a teacher's guide, is designed to teach the proper use and care of many hand tools and demonstrate various woodworking operations. Titles include: planes and their uses, saws and sawing, fastening wood parts, fastening with dowels, and woodworking operations. The teacher's guide contains filmstrip summaries and follow-up questions. RRC CODE: 3 PRENHA 05

PROFESSIONAL RESOURCES

BOOKS

Abedor, A. J., & Bell, N. T. **Developing Audiovisual Instructional Materials for Vocational and Teacher Training.** Educational Technology Publications, 140 Sylvan Ave., Englewood Cliffs, NJ 07632. 1977. 179 pp. Three major elements are covered in this book: the design process, a new strategy for vocational instruction, and elements that are critical in instruction. The book was written with the principle of "practice what you preach while you preach it" in mind. RRC CODE: 04091

Abramson, T.; Tittle, C. K., & Cohen, L. **Handbook of Vocational Education Evaluation.** Sage Publications, 275 S. Beverly Dr., Beverly Hills, CA 90212. 1979. 619 pp. This volume is divided into five parts which describe vocational education, and its evaluation in terms of: history and goals, evaluation designs and approaches, use of evaluation concepts in program development, measurement and testing issues, and political context and evaluation rates. RRC CODE: 03996

Bellamy, T. G.; Horner, R. H., & Inman, D. **Vocational Rehabilitation of Severely Retarded Adults.** University Park Press, International Publishers in Science and Medicine, 233 E. Redwood St., Baltimore, MD 21202. 1979. 250 pp. Designed for graduate and upper level undergraduate university courses and for professionals working in special education rehabilitation, this book covers guidelines for task analysis, production, supervision, and vocational training. RRC CODE: 03895

Bitler, J. A. **Introduction to Rehabilitation.** C. V. Mosby Co., 11830 Westline Industrial Dr., St. Louis, MO 63141. 1979. 286 pp. This book is intended to serve as an overview of rehabilitation as practiced in the United States. It emphasizes a comprehensive approach to rehabilitation, involving many professions, for serving the needs of the total individual; but directed toward a vocational outcome. RRC CODE: 03927

Brolin, D. E. **Vocational Preparation of Retarded Citizens.** Charles E. Merrill, 1300 Alum Creek Dr., Columbus, OH 43216. 1976. 320 pp. Three aspects of vocational education are examined: basic background information on mental retardation and the development of a work personality; techniques of vocational preparation—including counseling, and job evaluation; and program models and evaluation. RRC CODE: 02548

Brolin, D. E., & Kokaska, C. J. **Career Education for Handicapped Children & Youth.** Charles E. Merrill, 1300 Alum Creek Dr., Columbus, OH 43216. 1979. 450 pp. This text presents career education of the handicapped as a life long process. It provides information on daily living, personal and social communication, and occupational skills for preschoolers through adults. Teaching strategies and resources are presented. RRC CODE: 04002

Calhoun, C., & Finch, A. V. **Vocational and Career Education: Concepts and Operations.** Wadsworth Publishing Co., Inc., 10 Davis Dr., Belmont, CA 94002. 1976. 493 pp. The text is intended for use in undergraduate and graduate courses in principles, history, philosophy and foundations of career and vocational education. RRC CODE: 04019

Cullinan D., & Epstein, M. H. **Special Education for Adolescents.** Charles E. Merrill Publishing Co., 1300 Alum Creek Dr., Box 508, Columbus, OH 43216. 1979. 432 pp. Designed to provide an account of the development of secondary programs for the handicapped, this book includes 12 chapters, each written by an acknowledged leader in some aspect of special education. Topics include: The Past, Present, and Future of Special Education for Adolescents; Diagnostic and Programming Considerations; Vocational Education; Behavior Management and Legal Issues. RRC CODE: 03902

Dahl, P.; Appleby, J. A., & Lipe, D. **Mainstreaming Guidebook for Vocational Educators.** Olympus Publishing Co., 1670 E. 13th St., Salt Lake City, UT 84105. 1978. 338 pp. This book was designed to help vocational educators serving the handicapped to develop positive attitudes, assess student capabilities, design facilities that eliminate physical barriers, and place students in jobs. RRC CODE: 03544

Evans, R. N., & Herr, E. L. **Foundations of Vocational Education.** Charles E. Merrill Publishing Co., 1300 Alum Creek Dr., Box 508, Columbus, OH 43216. 1978. 343 pp. This book is divided into five parts that deal with the objectives, disciplinary foundations, structural foundations, organization, and future of vocational education. Designed as a preservice and in-service resource for vocational educators, it emphasizes the relationship between vocational education and society as a whole. RRC CODE: 04023

Finch, C. R., & Crunkilton, J. R. **Curriculum Development in Vocational and Technical Education.** Allyn & Bacon, Inc., 470 Atlantic Ave., Boston, MA 02210. 1979. 318 pp. Basic curriculum principles and strategies are presented that apply to a number of vocational programs. Includes chapters on identification and selection of relevant curriculum materials, and development of individualized, competency based instructional packages. RRC CODE: 03977

Gale, M. A.; Dahl, P. R., & Cook, P. F. **Vocational Opportunities: Vocational Training and Placement of the Severely Handicapped.** Olympus Publishing Co., 1670 E. 13th St., Salt Lake City, UT 84105. 1978. 175 pp. Intended for use by vocational and job placement personnel and their trainers, this book describes the difficulties encountered by severely handicapped persons when trying to obtain vocational training and job placement, and suggests strategies for overcoming these difficulties. The book also identifies job opportunities. RRC CODE: 03972

Gillie, A. C., Sr. **Principles of Post-Secondary Vocational Education.** Charles E. Merrill, 1300 Alum Creek Dr., Columbus, OH 43216. 1973, 264 pp. This book deals with post-secondary vocational education and its role in the training of the middle level worker and the worker's role in society. The book defines middle level occupations as those between skilled labor and professional jobs. RRC CODE: 04007

Goldenson, R. M.; Dunham, J. R., & Dunham, C. S. **Disability and Rehabilitation Handbook.** McGraw-Hill Book Company, 1221 Ave. of the Americas, New York, NY 10020. 1978. 864 pp. This book presents detailed information on disabilities of every major type and on all phases of the rehabilitation process. It provides a practical guide for the disabled and their families to the resources available to them for treatment and self-development. RRC CODE: 03272

Greenleigh Association, Inc. **Role of the Sheltered Workshop in Rehabilitation of the Severely Handicapped.** Greenleigh Associates, Inc., New York, NY. 1976. 491 pp. This volume represents a condensed version of the final report of a congressionally mandated evaluation of certain aspects of sheltered workshops. The overall intent was to identify and evaluate the role of sheltered workshops in providing rehabilitative services. RRC CODE: 03662

Hoyt, A. **Career Education in the High School.** Olympus Publishing Company, Two Olympus Plaza, 1670 E. 13th St., Salt Lake City, UT 84105. 1977. 461 pp. This book describes career education as a life-long process and examines that segment of the process occurring in the high school years. Career decision making and preparation are emphasized. RRC CODE: 03969

Kosmo, S. J., & Novak, J. L. **Orientation to the Job Placement Process.** Wisconsin Vocational Studies Center, 964 Educational Science Building, 1025 W. Johnson St., Madison, WI 53706. 1978. 341 pp. The readings included in this text are intended to provide school personnel with the background information necessary to develop school-based job placement services. RRC CODE: 04092

Livitan, S. A., & Taggart, R. **Jobs for the Disabled.** Johns Hopkins University Press, Baltimore, MD 21218. 1977. 142 pp. This study is part of a wide-ranging review of vocational rehabilitation. The book provides an overview of the vocational rehabilitation system, analyzes the relationship between disability and employability, deals with the underlying issues, and offers some possible cures. RRC CODE: 03174

McMahon, G. D. **Curriculum Development in Trade and Industrial and Technical Education.** Charles E. Merrill, 1300 Alum Creek Dr., Columbus, OH 43216. 1972. 144 pp. This book offers a practical plan for approaching curriculum development in trade and industrial and technical education. The author identifies potential problems and offers some solutions. RRC CODE: 04016

Maley, D. **Cluster Concept in Vocational Education.** American Technical Society, 5608 Stoney Island Ave., Chicago, IL 60637. 1975. 240 pp. This text deals with the development of occupational clusters for educational purposes, forms and structures of clusters, laboratory organization and management concerns, instructional methodology, evaluation procedures, and teacher education needs related to the cluster program in vocational education. RRC CODE: 03963

Orlich, D. C. **Evaluation Models for Vocational Educators.** Research Coordinating Unit, Washington Street Commission for Vocational Education, Building 17, Air-Industrial Park, MS LS10, Olympia, WA 98504. 1978. 120 pp. Provides vocational educators with information and models to assist them in designing evaluation systems. Included is a how-to guide with models that can be adapted or modified to fit any situation. RRC CODE: 03814

Phelps, A. & Lutz, R. **Career Exploration and Preparation for Special Needs Learner.** Allyn & Bacon, Inc., 470 Atlantic Ave., Boston, MA 02210. 1977. 375 pp. A curriculum and instructional development book for educators. Divided into two parts, the book presents basic concepts for planning for the special student, and specific processes in developing individualized instructional programs. RRC CODE: 03801

Reamy, L. **Travelability: A Guide for Physically Disabled Travelers.** MacMillan Publishing Co., Inc., 866 Third Ave. New York, NY 10022. 1978. 319 pp. This book discusses travel for the disabled. It covers travel by cars, trains, airlines, and boats, and discusses some problems that face the physically disabled. RRC CODE: 03989

Roberts, R. **Vocational and Practical Arts Education.** Harper and Row Publishing, Inc., 49 E. 33rd St., New York, NY 10016. 1971. 551 pp. This book examines federally aided training programs for the handicapped and the academically and socioeconomically deprived. The practical arts are defined as general training not designed to lead to specific jobs. RRC CODE: 03998

Snell, M. E. **Systematic Instruction of the Moderately and Severely Handicapped.** Charles E. Merrill Publishing Co., 1300 Alum Creek Dr., Box 508, Columbus, OH 43216. 1978. 525 pp. This book addresses teaching functional academics and vocational preparation to the moderately and severely handicapped. Also can be used as a resource for parents and other educators. RRC CODE: 03217

Tarrier, R. B. **Mainstreamed Handicapped Students in Occupational Education: Exemplary Administrative Practices.** Center for Advanced Study in Education, Institute for Research and Development in Occupational Education, Graduate Center, 33 W. 42nd St., New York, NY 10036. 1978. 91 pp. This study represents an effort to identify mainstreaming occupational education programs that work in New York State, and pinpoint specific administrative practices responsible for their success. RRC CODE: 03590

UNESCO. **Integration of Technical and Vocational Education Into Special Education.** United Nations Educational, Scientific and Cultural Organization, 7 Place de Fontenoy, 75700 Paris. 1977. 220 pp. This book covers the 1974-1975 studies done in Iran, Austria, Columbia, and Tunisia on the integration of technical and vocational education in special education. RRC CODE: 03295

Washburn, W. Y. **Vocational Mainstreaming.** Academic Therapy Publications, 20 Commercial Blvd., Novato, CA 94947. 1979. 173 pp. This book was written to assist teachers in helping learning disabled and other special needs students become productive, self-supporting citizens. It outlines procedures for developing and implementing effective mainstreaming vocational education programs. RRC CODE: 04090

Wehman, P. **Curriculum Design for Severely and Profoundly Handicapped.** Human Services Press, 72 Fifth Ave., New York, NY 10011. 1979. 256 pp. This book discusses the design of curriculums for severely and profoundly handicapped students that include instruction in self-help, motor, social, language, and vocational skills. Includes sample programs and instructional guidelines. RRC CODE: 03647

Weisgerber, R. **Vocational Education: Teaching Handicapped in Regular Classes.** The Council for Exceptional Children, 1920 Association Dr., Reston, VA 22091. 1978. 92 pp. This book is intended for inservice training of vocational education teachers who work with handicapped students. It familiarizes teachers with federal policy and program support, the role of the least restrictive environment, the importance of a success oriented learning climate, and considerations for orthopedic and health impairments, visual and communication impairments, and mental retardation. Methods are also given for individualized instruction. RRC CODE: 03790

Whiteley, J. M., & Resnikoff, A. **Career Counseling.** Wadsworth Publishing Co., Inc., 10 Davis Dr., Belmont, CA 94002. 1978. 262 pp. Provides comparisons of trait and factor, developmental, psychodynamic, client-centered, and behavioral approaches to career counseling. Part of the Brooks/Cole series in counseling psychology. RRC CODE: 03981

Wintling, T. L. **Evaluating Occupational Education and Training Programs.** Allyn and Bacon, Inc. 470 Atlantic Ave., Boston, MA 02210. 1980. 420 pp. Offers a process of program evaluation designed to help vocational educators develop programs to meet individual needs. Practical utilization of data is emphasized. RRC CODE: 03978

INSERVICE MATERIALS/MEDIA

Collating Sorting and Filing Training Program. EBSCO Curriculum Materials, 1230 1st Ave. North, Box 1943, Birmingham, AL 35201. 1978. Kit. A kit that provides training in basic job skills and appropriate work behaviors. Students are provided with repetitive practice in collating, sorting, and filing materials by color, shape, alphabetical order, and numerical order. Guide, record forms, and student practice materials are included. RRC CODE: 6 EBSCUM 02

EBSCO IEP 1-2-3. EBSCO Curriculum Materials, 1230 1st Ave. North, Box 1943, Birmingham, AL 35201. 1977, 1978. Kits. Classroom management kits that include sets of cards providing instructional objectives and methods, skill prerequisites, and resources for teaching in several skill areas. Kit 1: self-help skills for SPH and TMR students. Kit 2: behavioral and attitudinal competencies for mildly handicapped and TMR students. Kit 3: personal, social, survival, and occupational skills for secondary EMR and LD students. RRC CODE: 6 EBSCUM 01a-c.

Handicapped Adults and Their Lifestyles: Making It! Eye Gate Media, Inc., 146-01 Archer Ave., Jamaica, NY 11435. 1978. Kit. Four filmstrip/cassette programs that portray the philosophies, lifestyles, and vocational achievements of adults with handicaps. For junior and senior high school and adult audiences. RRC CODE: 6 EYEGAH 02

Life Centered Career Education. Council for Exceptional Children, 1920 Association Dr., Reston, VA 22091. 1978. Books. A manual and trainer's guide that provides guidance, training, and content for the development and implementation of a career oriented curriculum for mildly handicapped secondary school students. Competency based, the curriculum focuses on daily living skills, personal-social skills, and occupational guidance and preparation. RRC CODE: 6 COUFOE 08

Project PREVOC. Educational Service Center, Region XIII, 7703 N. Lamar Blvd., Austin, TX 78752. 1978. Kit. A multimedia inservice training program for teachers of prevocational programs for the handicapped. Ten modules cover such topics as: work and play, career development, work evaluation and training, behavioral assessment, and task analysis. RRC CODE: 3 EDSERC 01

Guide to Instructional Materials: Vocational Education. Vort Corporation, P.O. Box 11152, Palo Alto, CA 94306. 1978. Book. A guide to over 3,000 instructional materials designed to teach career and vocational skills. For each title the guide provides: skills taught, interest level, format, publisher, and price. RRC CODE: 6 VORTCO 02

Career Education Audio Digest. Time Share, 630 Oakwood Ave., West Hartford, CT 06110. 1978. Kit. Eight audio cassette programs covering such career education topics as: community involvement, guidance, stereotype-free programs, programs for the handicapped, curriculum and staff development, and evaluation. Guides provide assistance in using each topical cassette as a basis for eight inservices for school personnel. RRC CODE: 6 TIMSHC 01

PROFESSIONAL BOOKS (PGS. 5 & 6) AND TESTS (PG. 8) DO NOT CIRCULATE BUT MAY BE USED AT THE CENTER

FILMS

A Place Among Us. NBC/TV Educational Enterprises, 30 Rockefeller Plaza, New York, NY 10020. 1970. 16mm/27 min./color. Describes two programs in the field of mental retardation, one research oriented and one vocationally oriented, which focus on returning the mildly retarded to the community. RRC CODE: 6 NBCEDE 05

Count Me In. Stanfield House Films, P.O. Box 3208, Santa Monica, CA 90403. 1976. 16mm/20 min./color. This film shows developmentally disabled persons involved in independent living, work, and recreation, and explains how the handicapped can achieve a productive and fulfilling life. RRC CODE: 6 STAHOU 10

Fitting In. University of Wisconsin-Extension Bureau of AV Instruction, 1327 University Ave., P.O. Box 2093, Madison, WI 53706. 1977. 16mm/27 min./color. Myths about epilepsy, cerebral palsy and mental retardation are examined in this film which portrays three disabled persons who are leading productive lives in their communities. RRC CODE: 6 UNIVWI 02

I'll Promise You A Tomorrow. Hallmark Films & Recordings, Inc., 1511 E. North Ave., Baltimore, MD 21213. 1972. 16mm/20 min./color. Demonstrates the basic concepts of orienting an exceptional child to the community and shows the viewer how to teach some necessary life skills. RRC CODE: 6 HALFIR 01

Job Interview: I Guess, I Got the Job. McGraw-Hill Films, 1221 Avenue of the Americas, New York, NY 10020. 1975. 16mm/13 min./color. Shows two boys taking very different approaches to a job interview. Examines whether honesty or personal salesmanship is the best tack, and explains nonverbal language in interviews. RRC CODE: 6 MCGRHI 40a

Like Everybody Else. Stanfield House Films, P.O. Box 3208, Santa Monica, CA 90403. 1977. 16mm/32 min./color. One of the country's largest comprehensive programs for retarded adults, the AHRC Vocational Training Center in Freeport, Long Island, is shown in this film. RRC CODE: 6 STAHOU 07

Nature of Mental Retardation. University of Kansas, 746 Massachusetts St., Lawrence, KS 66044. n.d. 16mm/22 min./color. Relates vocational counseling to the various adaptive behavior levels of retarded children. Discusses causes and rehabilitation potential of different levels. RRC CODE: 6 UNIVKA 01

Training Programs and Techniques. University of Kansas, 746 Massachusetts St., Lawrence, KS 66044. 1970. 16mm/25 min./color. This film shows three types of training used in rehabilitation programs for the retarded; a mechanical skills program for educables, sheltered workshop for trainables, and cottage programs for severely retarded. RRC CODE: 6 UNIVKA 02

Try Another Way. Film Productions of Indianapolis, 128 E. 36th St., Indianapolis, IN 46205. 1973. 16mm/27 min./color. The philosophy and work of Dr. Marc Gold in developing marketable skills in severely handicapped people are shown in this film. RRC CODE: 6 FILPRO 01

Try Another Way Training Series. Film Productions of Indianapolis, 128 E. 36th St., Indianapolis, IN 46205. 1975. 16mm/12-22 min./color. A series of training films demonstrating Dr. Marc Gold's philosophy and work with the mentally retarded. The series contains an overview film and others on: task analysis; components of task analysis; and subcategories of process task analysis and feedback—all of which illustrate Gold's educational methods for trainers who work with the retarded. RRC CODE: 6 FILPRO 02

TESTS

Basic Skills Remedial Inventory. Elwyn Institute, Elwyn, PA 19063. 1972. Group. The test is designed to assist teachers in evaluating students' understanding of certain basic skill areas essential to community living. RRC CODE: 0304

Geist Picture Interest Inventory. Western Psychological Services, 12031 Wilshire Blvd., Los Angeles, CA 90025. 1964. Group. This test is designed to identify for students the work or hobbies they like best. The test contains three sets of pictures that depict either a job, activity, occupation, hobbies, or object. The students pick the one they like best according to the question. RRC CODE: 0243

Individual Student Assessment System. Seaside Education Associates, Zero Elm St., Manchester, MA 01944. 1977. Individual. This test is used to measure motor, early language, activities of daily living, language, mathematics, social and vocational development. RRC CODE: 0335

Ohio Vocational Interest Survey. Harcourt Brace Jovanovich, Inc., 757 Third Ave., New York, NY 10017. 1970. Group. This test is a survey of student interests as they relate to the world of work. The survey is divided into two parts: student information questionnaire and interest inventory. RRC CODE: 0191

Minnesota Rate of Manipulation Test. American Guidance Service, Inc., Publisher's Building, Circle Pines, MN 55014. 1969. Group. This test was designed to provide employers with an instrument that would improve the efficiency of personnel selection for jobs requiring arm and hand dexterity. RRC CODE: 0096

Minnesota Spatial Relations Test. American Guidance Service, Inc., Publisher's Building, Circle Pines, MN 55014. 1979. Individual. This test can be used by persons in educational, industrial, and business organizations to measure a person's accuracy and speed in the discrimination of three-dimensional geometric shapes (spatial visualization ability). RRC CODE: 0028

Reading-Free Vocational Interest Inventory. Edmark Associates, 13241 Northup Way, Bellevue, WA 98005. 1975. Individual. To be used with the senior high age EMR student to test for: vocational counseling needs, job placement, curriculum planning, and vocational interest. RRC CODE: 0118

San Francisco Vocational Competency Scale. The Psychological Corporation, 757 Third Ave., New York, NY 10017. 1968. Individual. This test was developed to assess the vocational competence of mentally retarded adults over 18 years of age. Should not be used with persons with hearing, visual, or motor losses. RRC CODE: 0192

Social and Prevocational Information Battery. McGraw-Hill, 1221 Avenue of the Americas, New York, NY 10020. 1975. Group. To be used with junior and senior high school age EMR students to test for vocational aptitude and prevocational education. RRC CODE: 0138

Valpar Component Work Samples. See "Instructional Materials."

Valpar Prevocational Assessment Battery. See "Instructional Materials."

Vocational Tests and Reviews Index. Quinn & Boden Co., Rahway, NJ 07065. 1975. Index. This test is designed to assist professionals in the selection of tests of vocational abilities and interests. RRC CODE: 0232

JOURNALS & NEWSLETTERS

Career Development of Exceptional Individuals. Career Development Council for Exceptional Children, 1920 Association Dr., Reston, VA 22091. Twice yearly, spring and fall. $16.00 per year. $4.00 single copy.

Career Education Quarterly. School of Education, Room 1502, 765 Commonwealth Ave., Boston, MA 02215. Quarterly. $10.00 per year. $2.50 single copy.

Industrial Arts and Vocational Education. MacMillan Professional Magazines, Inc., 77 Bedford St., Stamford, CT 06901. Monthly. $12.00 per year. $1.50 single copy.

Journal of Vocational Education Research. Carol P. Kowle, Managing Editor, Ohio State University, 1960 Kenny Rd., Columbus, OH 43210. Quarterly. $25.00 per year.

Resources in Vocational Education. Ohio State University, 1960 Kenny Rd., Columbus, OH 43210. Bimonthly. $34.00 per year.

Vocational Guidance Quarterly. American Personnel & Guidance Association, 1607 New Hampshire Ave., N.W., Washington, DC 20009. Quarterly. $10.00 per year. $3.00 single copy.

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